

January 17, 2003

Ms. Marlene Dortch Secretary Federal Communications Commission 445 12th Street, S.W. 12th Street Lobby, TW-A325 Washington, DC 20554

Re: Ex Parte Presentation

IB Docket No. 01-185; ET Docket No. 95-18; ET Docket No. 00-258

Dear Ms. Dortch:

On January 16, 2003, the Cellular Telecommunications & Internet Association ("CTIA") represented by Diane Cornell, Vice President for Regulatory Policy, Steve Sharkey, Director, Spectrum and Standards Strategy, Motorola, Jim Bugel, Executive Director, Government Affairs, Cingular Wireless, and Andrew Clegg, Senior Manager of Wireless Strategy, Cingular Wireless, met with Barry Ohlson, Legal Advisor to Commissioner Adelstein, to discuss interference issues related to the pending Mobile Satellite Service/Ancillary Terrestrial Component proceedings. Specifically, the parties discussed the attached presentation.

Pursuant to Section 1.1206 of the Commission's Rules, an original and one copy of this letter is being filed with your office. If you have any questions concerning this submission, please contact the undersigned.

Sincerely,

Diane J. Cornell

Diane J. Cornell

cc: Barry Ohlson



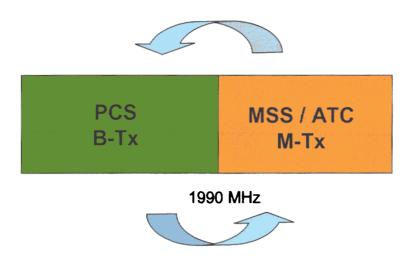
Interference Between ATC/MSS and PCS In the 1990-2025 MHz Band

IB Docket No. 01-185 ET Docket No. 95-18 ET Docket No. 00-258

Industry Ex Parte Meeting January 16, 2003

Interference Between MSS / ATC and PCS

MSS / ATC operations at 1990 MHz will result in interference to/from PCS.

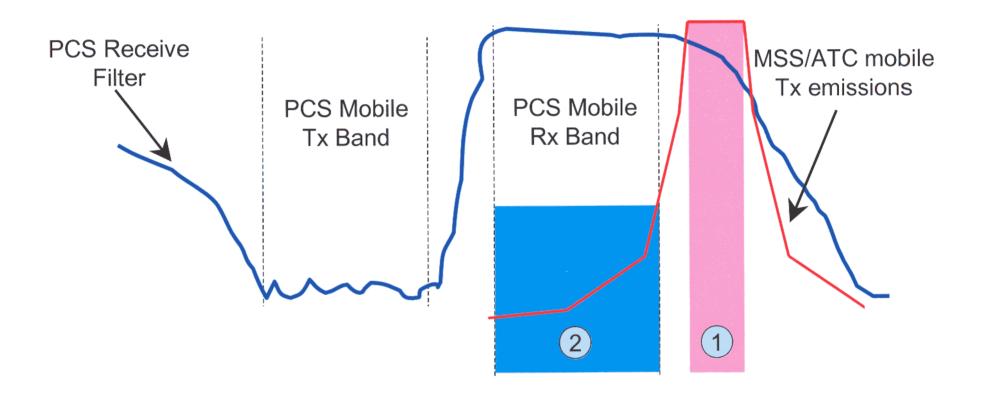


ATC mobile transmitters will interfere into PCS mobile receivers.

MSS mobile transmitters will interfere into PCS mobile receivers.

PCS base station transmitters will interfere into ATC base station receivers.

MSS / ATC Interference Into PCS



- 1) Interference primarily due to PCS mobile receiver picking up MSS/ATC mobile transmitter main carrier.
- 2) Interference primarily due to PCS mobile receiver picking up MSS/ATC mobile transmitter out-of-band emissions.



Architecture & Systems Engineering

	FCC (ITU Cat A)	European (ITU Cat B)	TIA Rule	TIA Rule	Calculated Tx At ACP Limit	Specimen at PA Limit
Tx Configuration	General	General	CDMA2000	TDMA	CDMA2000	WCDMA
Frequency offset/Band	PCS Rx	PCS Rx	PCS Rx	PCS Rx	10 MHz	10 MHz
Rx noise floor dBm/1.25 MHz	-108	-108	-108	-108	-108	-108
Tx Filtering at offset (dB)	n/a	n/a	n/a	n/a	15	0
Power at offset (dBm/1.25 MHz)	-13	-30	-80	-63.8	-41.6	-33.1
Power transmitted into victim Rx (dBm)	-19	-36	-86	-69.8	-47.6	-39.1
Amount of desense w/o separation (dB)	88.9	71.9	21.9	38.1	60.3	68.8
Meter separation required for 3 dB degradation	333	50.5	0.16	1.0	13.3	35.4

FCC Rules result in 300+ meter separation requirement.

TIA levels provide acceptable protection for PCS band.

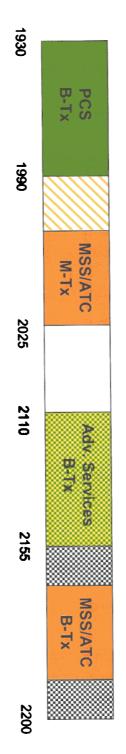
Measured devices at 10 MHz offset fall short of out-of-band emissions specifications.

PCS Interference Into ATC

- PCS base stations will interfere into ATC base stations.
- ITU Report on "Compatibility between WCDMA 1800 Downlink and GSM 1900 uplink"; Working Party 8F, Document 8/66-E.
 - Report concludes that guard band is required to prevent base-to-base interference.
 - Deterministic calculations show that as much as 15 MHz may be required.
 - Coordination, physical separation of base stations, and other system trade-offs may reduce the required guard band.
 - 5 MHz guard band may be possible, but not without trade-offs that might be unacceptable to MSS/ATC.

Possible Solution to MSS/ATC/PCS Interference

Move MSS Up in Band



- Provide sufficient guard band between PCS and MSS/ATC at 1990 MHz.
- Guard band not required above 2155 MHz, since both bands are mobile Rx.
- to stricter emissions limits than those currently in the FCC's rules. Even with an adequate guard band, ATC/MSS mobiles will need to adhere